

**ABSTRACT**

A method for transferring data between programming agents and memory resources. The method includes transferring data between a processing agent and a memory resource, designating the memory resource for pushing the data to the processing agent via a push bus having a plurality of sources that arbitrate use of the push bus, and designating the memory resource for receiving the data from the processing agent via a pull bus having a plurality of destinations that arbitrate use of the pull bus.

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